

FIG. 1

PERMUTATION TABLE															
0	1	142	244	71	167	122	186	173	157	221	152	61	170	93	150
216	114	192	88	224	62	76	102	144	222	85	128	160	131	75	42
108	237	57	81	96	86	44	138	112	208	31	74	38	139	51	110
72	137	111	46	164	195	64	94	80	34	207	169	171	12	21	225
54	95	248	213	146	78	166	4	48	136	43	30	22	103	69	147
56	35	104	140	129	26	37	97	19	193	203	99	151	14	55	65
36	87	202	91	185	196	23	77	82	141	239	179	32	236	47	50
40	209	17	217	233	251	218	121	219	119	6	187	132	205	254	252
27	84	161	29	124	204	228	176	73	49	39	45	83	105	2	245
24	223	68	79	155	188	15	92	11	220	189	148	172	9	199	162
28	130	159	198	52	194	70	5	206	59	13	60	156	8	190	183
135	229	238	107	235	242	191	175	197	100	7	123	149	154	174	182
18	89	165	53	101	184	163	158	210	247	98	90	133	125	168	58
41	113	200	246	249	67	215	214	16	115	118	120	153	10	25	145
20	63	230	240	134	177	226	241	250	116	243	180	109	33	178	106
227	231	181	234	3	143	211	201	66	212	232	117	127	255	126	253

FIG. 2

	COMPATIBLE MODE			ENHANCED CIPHER MODE		
FIRST ENCRYPTION/ DECRYPTION SECTION	DES	DES	DES	DES-SS	DES	
FIRST TRANSPOSITION SECTION	UNUSED	UNUSED	UNUSED	USED	USED	
SECOND ENCRYPTION/ DECRYPTION SECTION	DES	DES	DES	DES	DES	...
SECOND TRANSPOSITION SECTION	UNUSED	UNUSED	UNUSED	USED	USED	
THIRD ENCRYPTION/ DECRYPTION SECTION	DES	DES	DES-SS	DES-SS	DES	
CIPHER TO BE OBTAINED	DES *1	TRIPLE-DES *2	DES-SS *3	PATTERN 1	PATTERN 2	...

- *1: SAME KEY IS USED IN FIRST AND SECOND ENCRYPTION/DECRYPTION SECTION
- *2: SAME KEY IS USED IN FIRST AND THIRD ENCRYPTION/DECRYPTION SECTION
AND A DIFFERENT KEY IS USED IN SECOND ENCRYPTION/DECRYPTION SECTION
- *3: SAME KEY IS USED IN FIRST AND SECOND ENCRYPTION/DECRYPTION SECTION

FIG.3

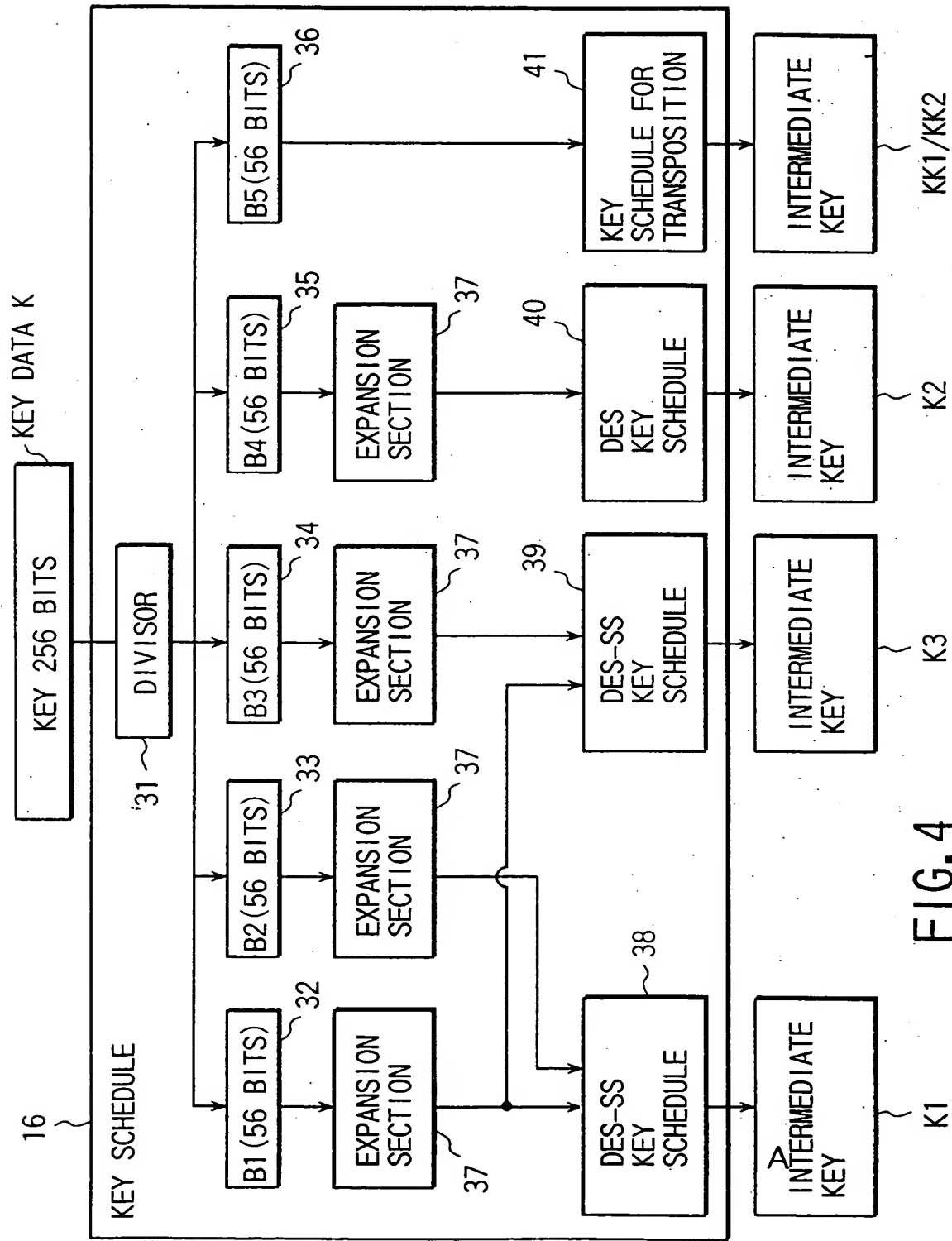


FIG. 4

1	2	3	4	5	6	7	*	8	9	10	11	12	13	14	*
15	16	17	18	19	20	21	*	22	23	24	25	26	27	28	*
29	30	31	32	33	34	35	*	36	37	38	39	40	41 - 42	*	
43	44	45	46	47	48	49	*	50	51	52	53	54	55	56	*

*: REPRESENTS ARBITRARY BIT(0) PADDING OR A PARITY BIT ACCORDING TO DES SPECIFICATION

FIG.5

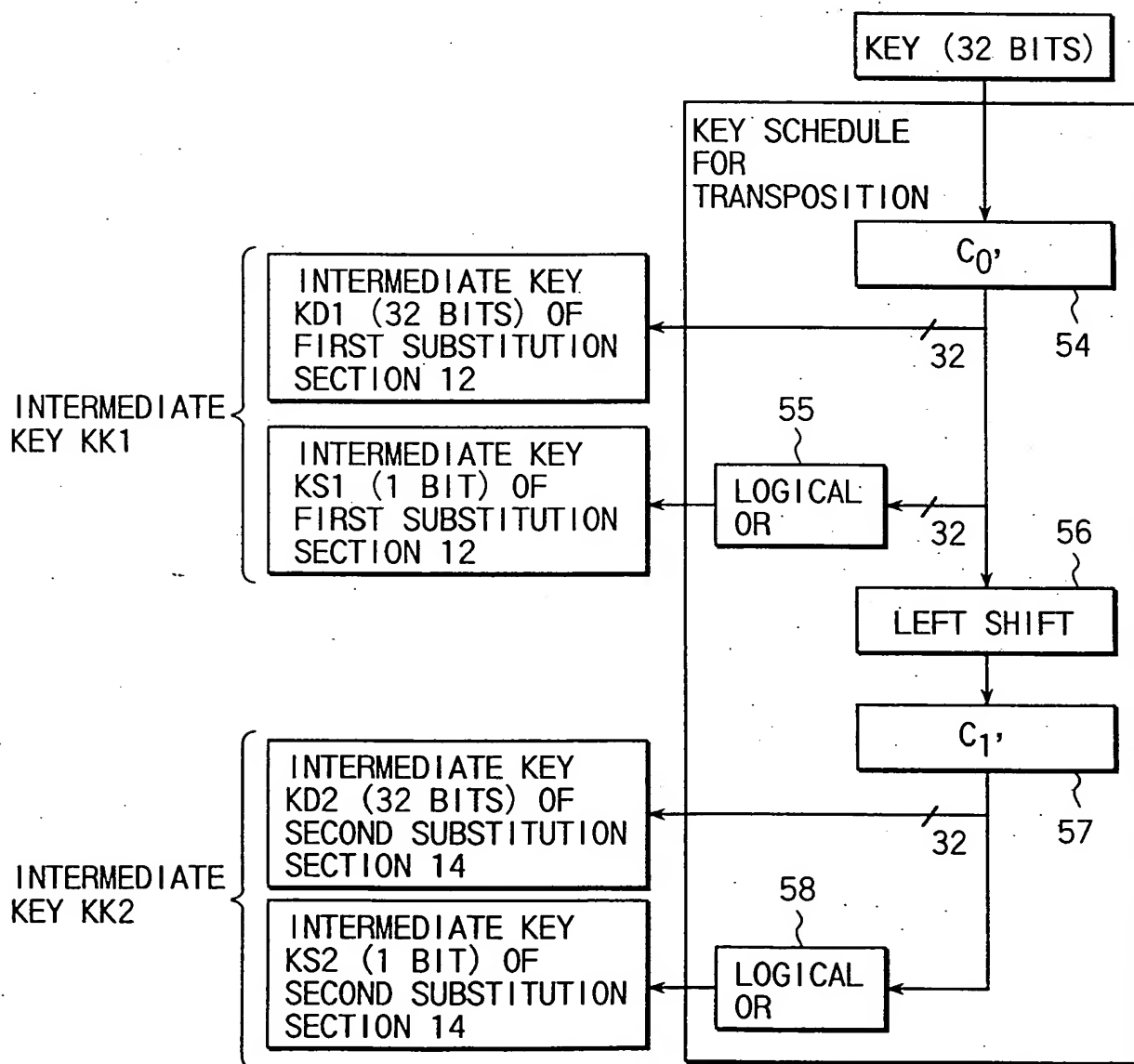


FIG.7

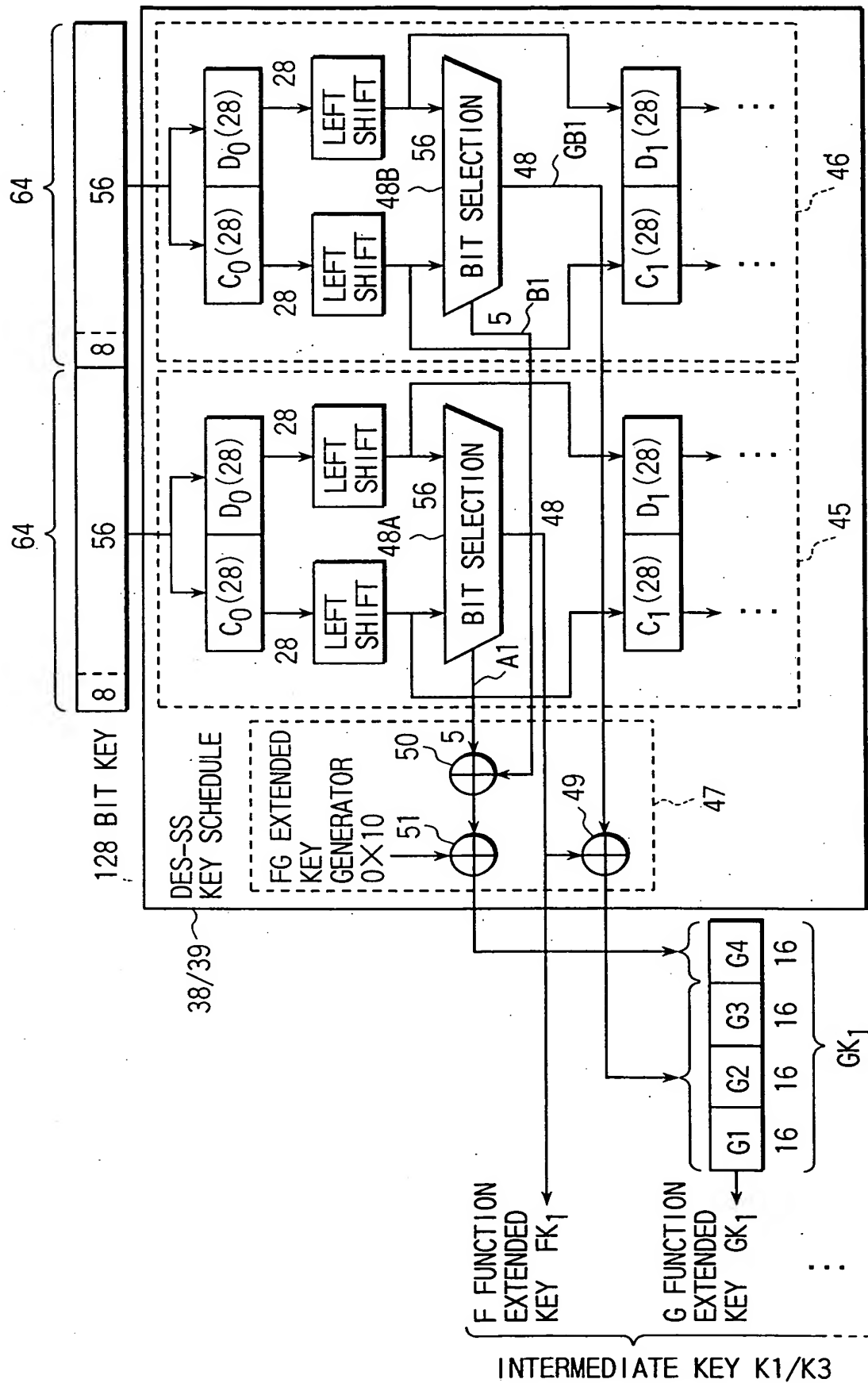
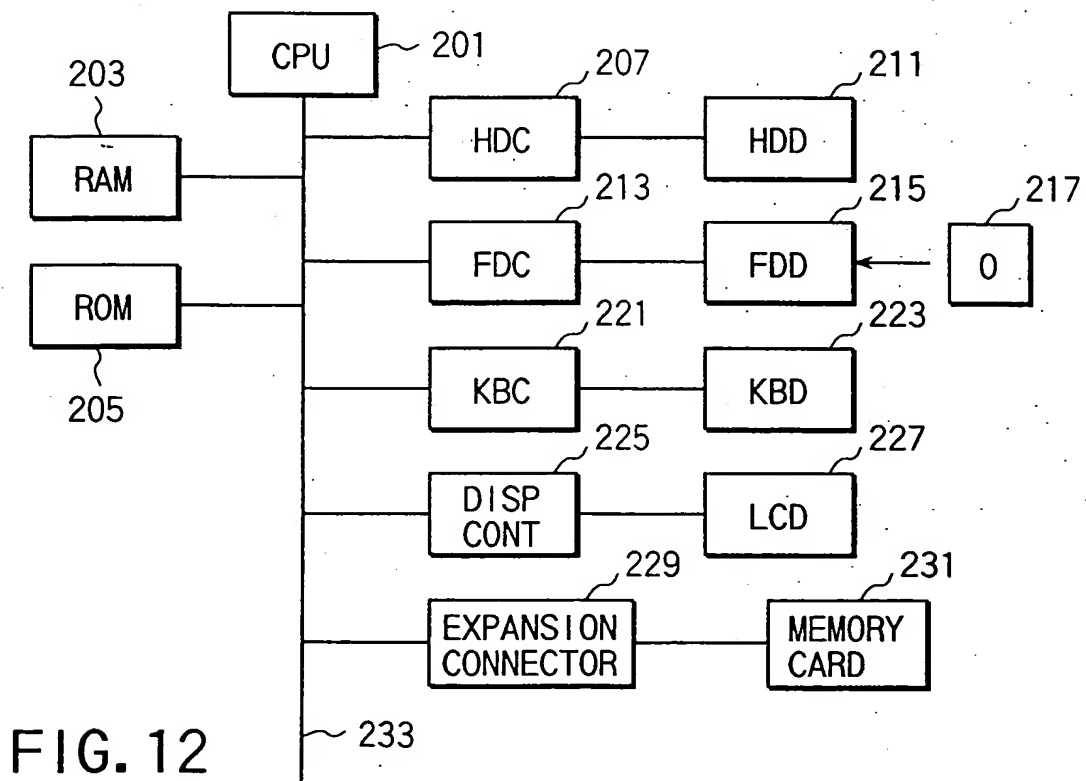
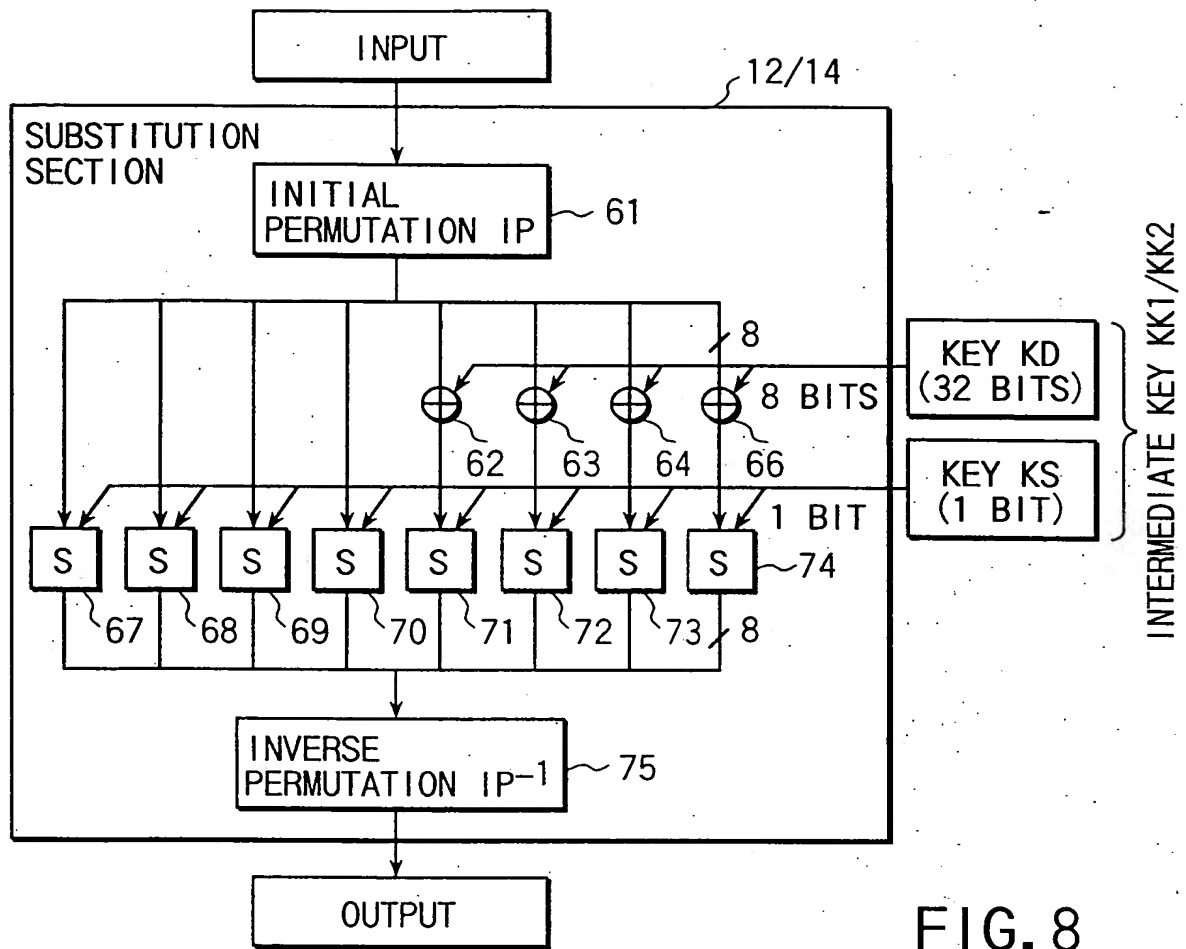
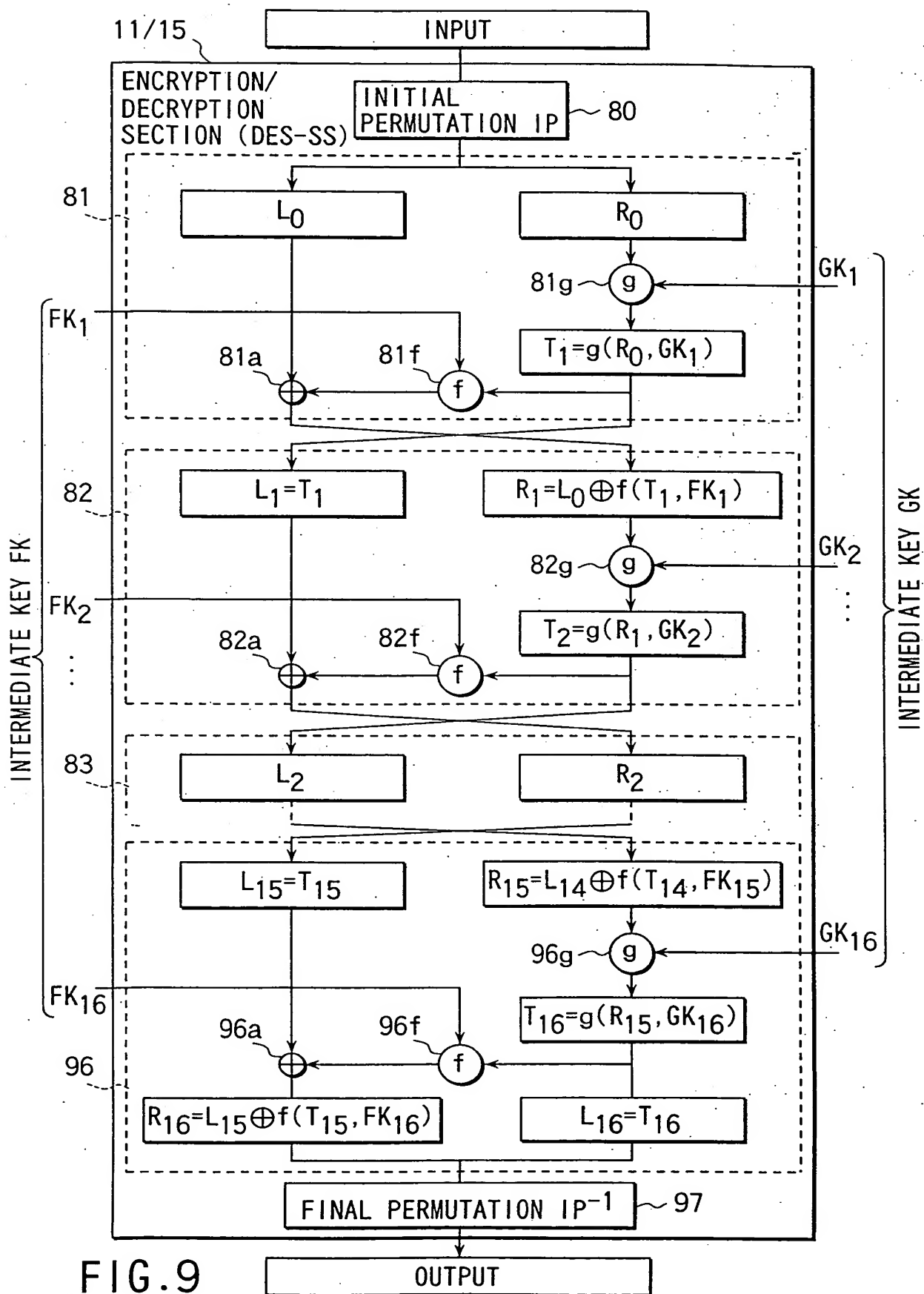


FIG. 6





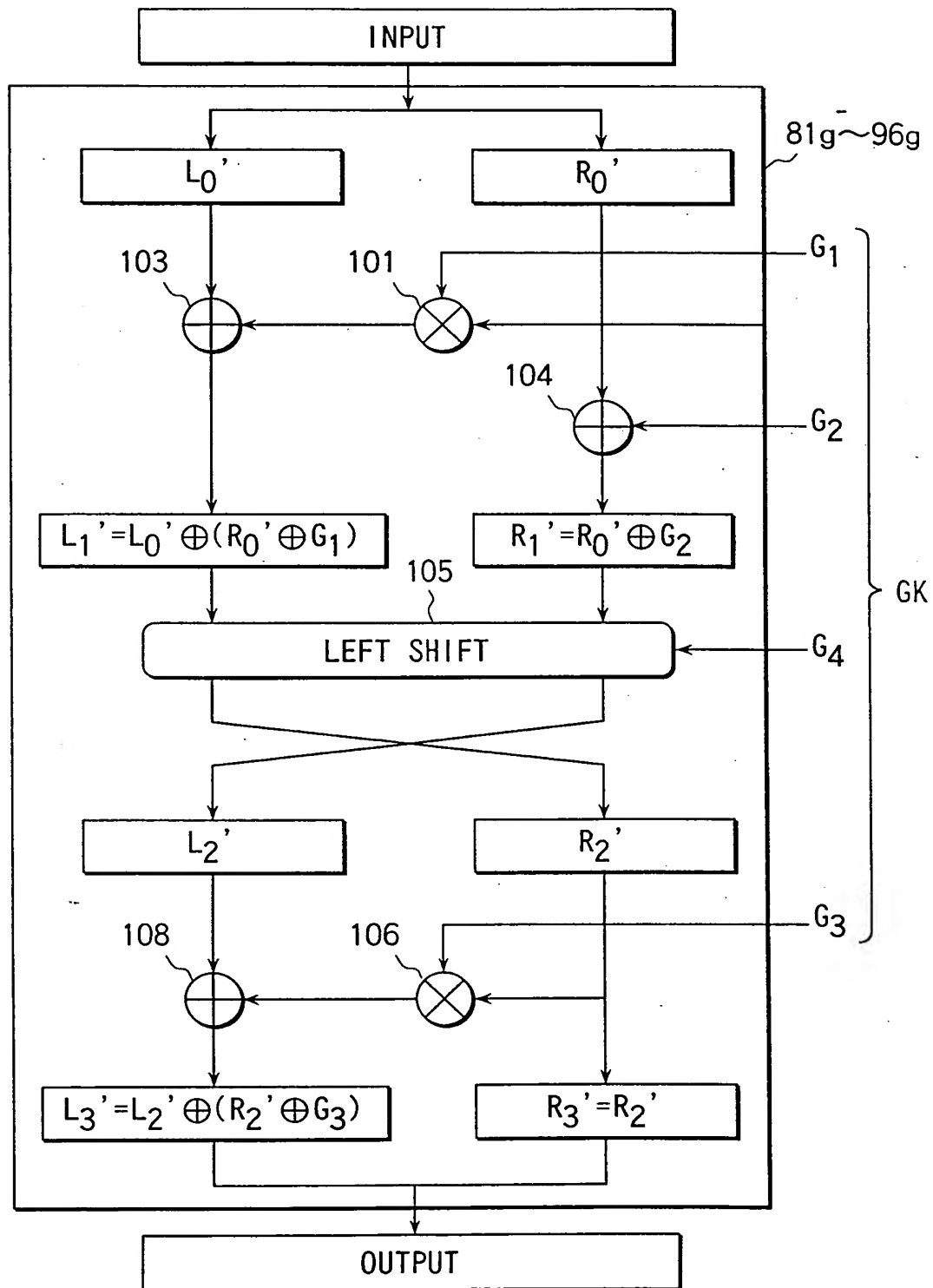


FIG. 10

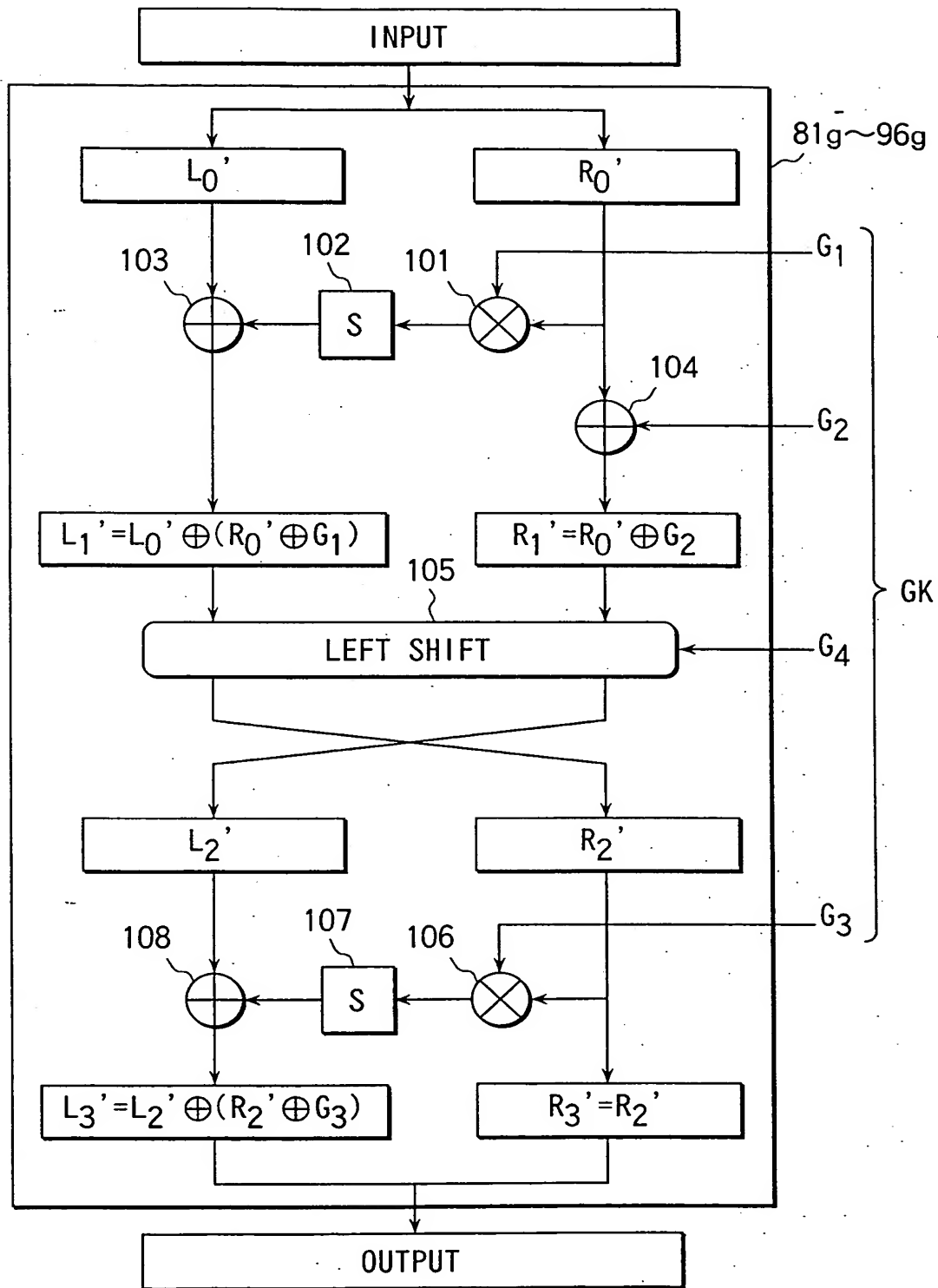


FIG.11